

Module: Linear Equations
Lesson 1: Finding Slope
Homework

Name:

Date:

Pd:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope of the line through the given points.

1. $(-1, 2)$ and $(-5, 10)$

2. $(-7, 10)$ and $(1, 10)$

3. $(1, 3)$ and $(0, -9)$

4. $(3, 7)$ and $(3, -8)$

5. $(-3, 7)$ and $(-3, 6)$

6. $(100, 10)$ and $(-3, 50)$

7. $(18, 6)$ and $(-7, 7)$

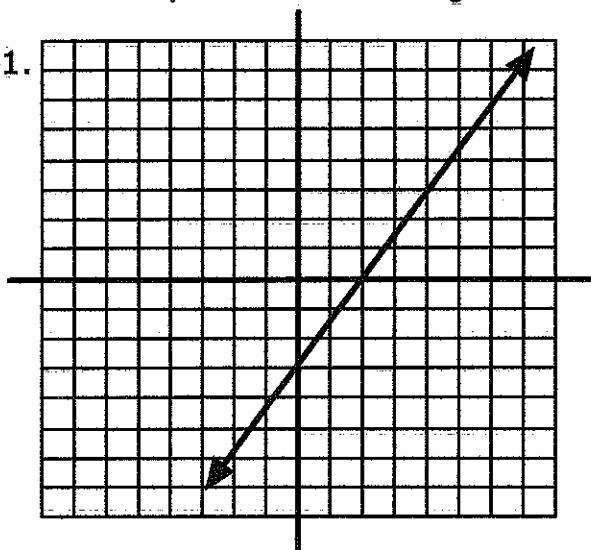
8. $\left(\frac{-1}{2}, \frac{2}{3}\right)$ and $\left(\frac{3}{2}, \frac{14}{3}\right)$

9. $(0, 1)$ and $(4, 0)$

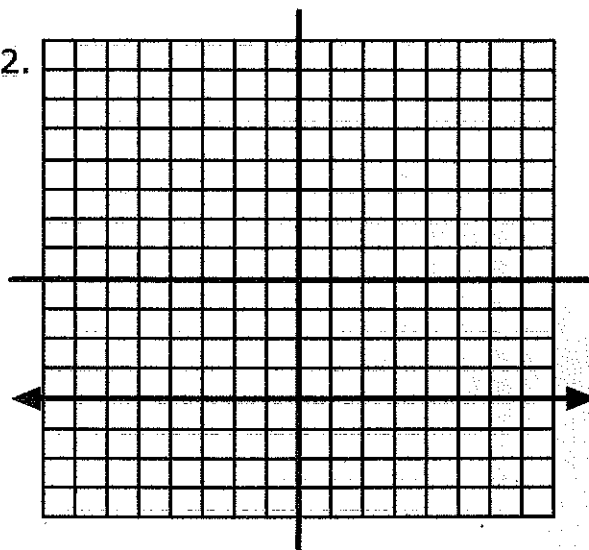
10. $(5x, y)$ and $(2x, 2y)$

Find the slope of the following:

11.



12.



• parallel lines have _____ slope.

• perpendicular lines have _____ slopes.

• Slope of a vertical line is _____.

• Slope of a horizontal line is _____.

Parallel or Perpendicular?

① $y = \frac{1}{2}x - 1$
 $y = -2x + 1$

② $y = 2x - 3$
 $y = 2x$

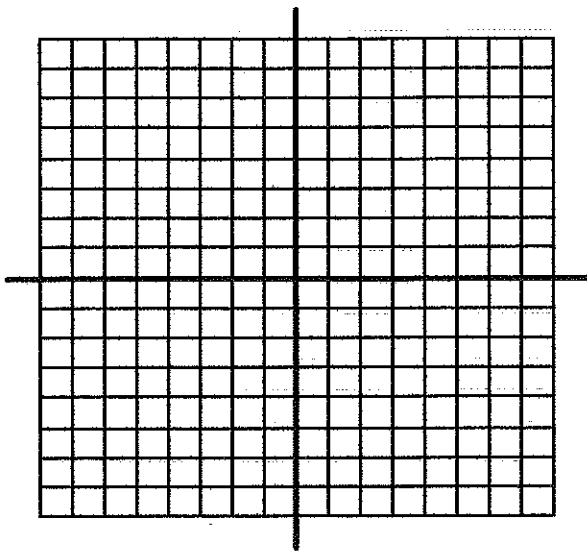
③ $y = \frac{2}{3}x$
 $y = \frac{3}{2}x$

④ $y = 2$
 $x = 1$

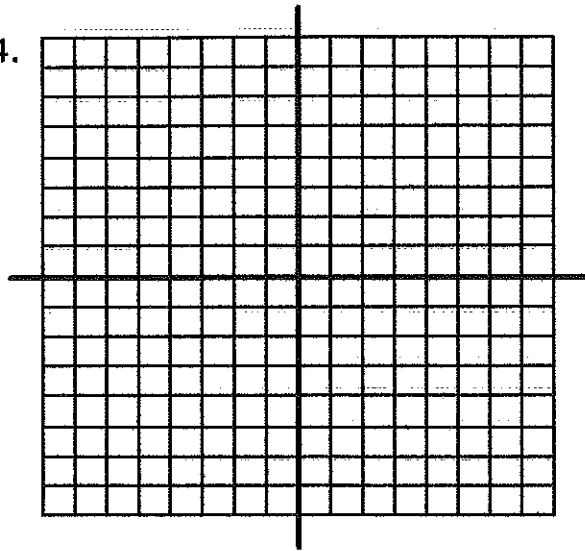
Graph $y = \frac{1}{2}x - 1$

Graph $x = -2$

13.

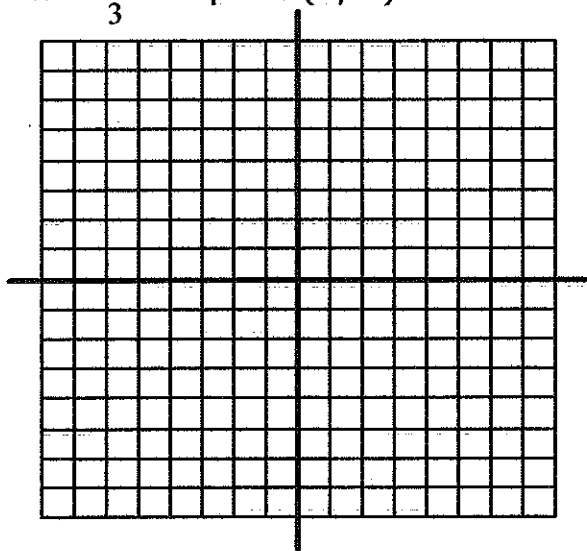


14.

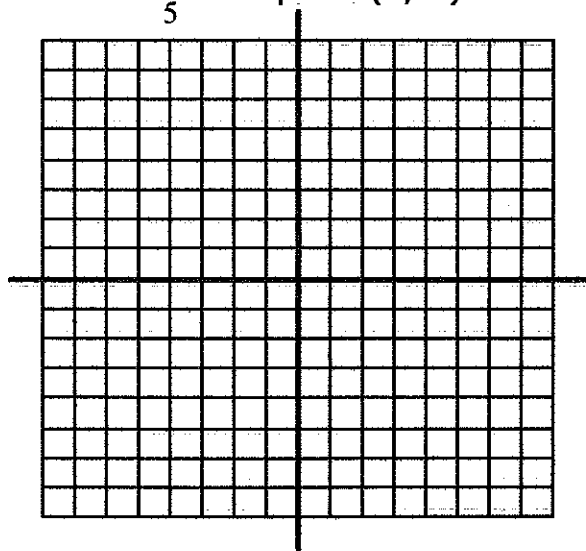


15-18 Graph the line with given slope and through the given point.

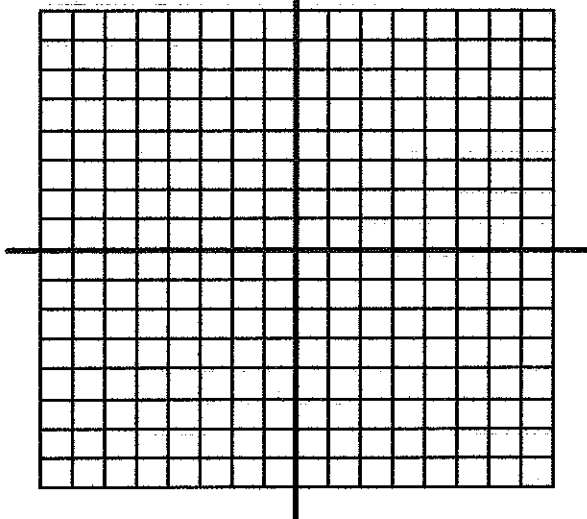
15. $m = \frac{1}{3}$ and point $(3, -1)$



16. $m = \frac{-2}{5}$ and point $(4, -2)$



17. $m = \text{undefined}$ and point $(1, 4)$



18. perpendicular to $y = \frac{1}{3}x - 5$ through $(1, 3)$

